# **Maryland Historical Trust**

Maryland Inventory of Historic Properties number: WAS  Name: W-238/OUD FORGE R	I-73Z D. OVEZ MARSHRAW
The bridge referenced herein was inventoried by the Maryland St Historic Bridge Inventory, and SHA provided the Trust with eligi The Trust accepted the Historic Bridge Inventory on April 3, 200 determination of eligibility.	ibility determinations in February 2001.
MARYLAND HISTORICAL Eligibility Recommended	L TRUST Eligibility Not RecommendedX
Criteria:ABCD Considerations:A Comments:	BCDEFGNone
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001
Reviewer, NR Program: Peter E. Kurtze	

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/ MARYLAND HISTORICAL TRUST

MHT No. <u>WA-I-732</u>

SHA Bridge No. <u>W-2381</u> Bridge nar	ne Old Forge Road over Marsh Run
<u>LOCATION:</u> Street/Road name and number [facility carried]	Old Forge Road
City/town East-northeast of Hagerstown	Vicinity
County Washington	
This bridge projects over: Road Railwa	y Water X Land
Ownership: State County _X	Municipal Other
National Register-listed district	c district? Yes No _X National Register-determined-eligible district Other
Name of district	
BRIDGE TYPE: Timber Bridge: Beam Bridge Truss -Covered	Trestle Timber-And-Concrete
Stone Arch Bridge	
Metal Truss Bridge	
	ngle Leaf Bascule Multiple Leaf Pontoon
<del></del>	der Concrete Encased er Concrete Encased
Metal Suspension	
Metal Arch	
Metal Cantilever	
	X Concrete Beam Rigid Frame

<b>DESCRIPTION:</b>			
Setting: Urban	Small town	X L Force Dec	Rural
County Old Force Roa	c No. w-2301 callies Old	rorge Roa	d over Marsh Run in Washington Marsh Run flows north-south under
the bridge. The bridge	is located east-northeast o	ossing, and of Hagerston	wn in the small town of Fiddlesburg.
the oriage. The oriage	is foodiod oust northoust	or magoristo.	on in the small town of I ladiesourg.
Describe Superstructure	e and Substructure:		
This bridge matches Ma	ryland SHA Design Stand	dards from 1	1919, and available records indicate
it was built in circa 1919	). Bridge No. W-2381 is a	two span,	simply supported, two-lane concrete
			th of 17'. It has no skew. The
			ented concrete parapets. The solid shaft concrete pier. The
			s are flared. The structure is posted
for a weight limit of 10			and marca. The surface is possed
_			
			e, its condition is as follows. Some
			nsive cracking and some spalling
			ome of these areas. At the outlet underside and corner of the slab.
			cence coming through and small
			r the pier that extends through the
parapet for its full heigh	it. The parapet walls are	in generally	good condition. The concrete in
			ne. There is minor scour at the
nose of the pier, but the	ere is no undermining of e	either the pi	er or the abutments.
Discuss Major Alteratio	ins:		
		hould be sch	neduled for major work and
			apets. The 1981 report indicates
			esurfacing the deck and the grouting
of cracks in the parapet	. Sections of the cap were	e removed a	and a cold-joint repair made.
Washington County brid	lae files do not contain fu	rther inform	nation pertaining to repairs made
	thereof, or when they too		nation pertaining to repairs made
····· ···· ··· ··· ··· ··· ··· ··· ···	,	<b>F</b>	
HISTORY:			
WHFN was the bridge b	ouilt (actual date or date	ranga) circ	a 1010
Source of date: Plaque	Design plans _	X Co	ed <u>X</u> unty bridge files/inspection form
Other (specify)			<del></del>
WHY was the bridge bu	ilt?		
Unknown			
WHO was the designer? State Roads Commissio			
State Moaus Commissio	11		

WHO was the builder? State Roads Commission

WA-I-732

#### WHY was the bridge altered?

Repairs were necessary: concrete deck repairs and parapet repairs completed between 1979 and 1981.

### Was this bridge built as part of an organized bridge-building campaign?

Yes. This bridge was constructed as a part of post World War I improvements to secondary roads in Maryland.

#### **SURVEYOR/HISTORIAN ANALYSIS:**

This bridge may have Nat	ional Register significan	ce for its association with:
A - Events	B- Person	
C- Engineering/ard	chitectural character	

This bridge does not have National Register significance.

Was the bridge constructed in response to significant events in Maryland or local history? Reinforced concrete slab bridges are a twentieth century structure type, easily adapted to the need for expedient engineering solutions. Reinforced concrete technology developed rapidly in the early twentieth century with early recognition of the potential for standardized design. The first U.S. attempt to standardize concrete design specifications came in 1903-04 with the formation of the Joint Committee on Concrete and Reinforced Concrete of the American Society of Civil Engineers.

Maryland's road and bridge improvement programs mirrored economic cycles. The first road improvement program of the State Roads Commission was a 7 year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war-related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920 to 1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund [with an equal sum from the counties] the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had become inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930s. Most improvements to local roads waited until the years after World War II.

With a diverse topographical domain encompassing numerous small and large crossings, Maryland engineers quickly recognized the need for expedient design and construction.

In the early years, there was a need to replace the numerous single lane timber bridges. Walter Wilson Crosby, Chief Engineer stated in 1906, "The general plan has been to replace these [wood bridges] with pipe culverts or concrete bridges and thus forever do way with the further expense

of the maintenance of expensive and dangerous wooden structures". Within a few years, readily constructed standardized bridges of concrete were being built throughout the state.

The creation of standard plans and a description of their use was first announced in the 1912-15 Reports of the State Roads Commission whereby bridges spanning up to 36 feet were to use standardized designs.

Published on a single sheet, the 1912 Standard Plans included those structures that were amenable to such an approach: slab spans, (deck) girder spans, box culverts, box bridges, abutments, and piers (State Roads Commission 1912). Slab spans, with lengths of 6 to 16 feet in two foot increments, featured a solid parapet that was integrated into the slab, with a roadway of 22 feet.

In the Report for the years 1916-1919, a revision of the standard plans was noted:

During the four years covered by this report, it has been found necessary to revise our standard plans for culverts and bridges, to take care of the increased tonnage which they have been forced to carry. Army cantonments...increased their operations several hundred per cent, and the brunt of the enormous truck traffic resulting therefrom, was borne by the State Roads of Maryland. In addition to these war activities, freight motor lines from Baltimore to Washington, Philadelphia, New York, and various points throughout Maryland, and the weight of many of these trucks when loaded, was in excess of the loads for which our early bridges were designed (State Roads Commission 1920:56).

Published on separate sheets, the new standard plans (State Roads Commission 1919) for slab bridges reveal that the major changes was an increase in roadway width from 22 feet to 24 feet and a redesign of the reinforcement. The slab spans continued to feature solid parapets integrated into the span. The range of span lengths remained 6 to 16 feet, but the next year (1920) witnessed the issue of a supplemental plan for a 20 foot long slab span (State Roads Commission 1920).

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area? Unknown.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

No. This bridge is not located in an area which may be eligible for historic designation.

# Is the bridge a significant example of its type?

No. Bridge No. W-2381 is one of many concrete slab bridges built after the first World War in Maryland. Many of its character defining elements are in a deteriorated state, and it is an undistinguished example of its type.

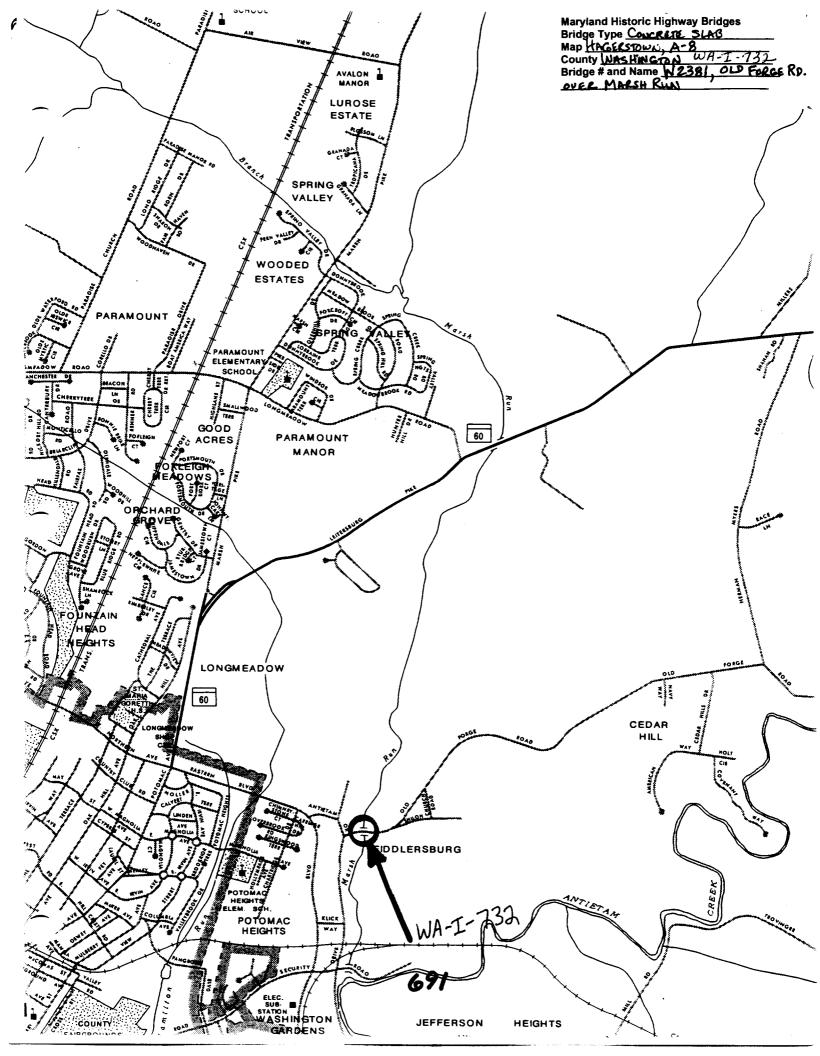
Does the bridge retain integrity of important elements described in Context Addendum? No. This bridge appears to have its character defining elements intact. However, inspection reports indicate the condition of Bridge No. W-2381 is deteriorating, and there is the possibility of chloride contamination.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer? This bridge is not a significant example of the work of the State Roads Commission.

Should the bridge be given further study before an evaluation of its significance is made? No further evaluation is necessary to determine National Register significance. Although it reflects the state's post World War I expansion of secondary road systems, it is an undistinguished example of its type. However, additional research concerning the history of this bridge and its relationship to the surrounding landscape may be useful in providing a more complete picture of the bridge's background.

**BIBLIOGRAPHY:** 

· · · · · · · · · · · · · · · · · · ·	
County inspection/bridge files X Other (list):	SHA inspection/bridge files
SURVEYOR:	
Date bridge recorded August 1995	
Name of surveyor Adrienne Beaudet Cowden	
Organization/Address P.A.C. Spero & Company;	40 West Chesapeake Avenue, Suite 412;
Baltimore, Maryland 21204	
Phone number 410-296-1635	FAX number 410-296-1670



# INDIVIDUAL PROPERTY/DISTRICT MARYLAND HISTORICAL TRUST INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: <u>Bridge W-2381</u>	Survey Number: WA-1-732
Project: Bridge Replacement	Agency: FHWA
Site visit by MHT Staff: <u>X</u> no <u></u> yes Name	Date
Eligibility recommended Eligibility not reco	ommended <u>X</u>
Criteria:ABCD Considerations:A	_BCDEFGNone
Justification for decision: (Use continuation sheet if	necessary and attach map)
Bridge W-2381, Old Forge Road Bridge over Marsh Run, considered eligible for listing on the National Registe Historic Bridge Inventory and was determined not elig Register of Historic Places by the Interagency Bridge Co	r. The bridge was included in the rible for listing on the National
The bridge was originally constructed ca. 1919 and was sig 1983, according to the survey information. According to of this bridge replacement project, the bridge was recon	the information presented as part
The existing structure is a simple span concrete slab booker Marsh Run, Fiddlesburg, east of Hagerstown. The solution in the control of the bridge is not a particularly good architectural integrity necessary to qualify it for lifustoric Places.	tructure measures 32 feet long and example of its type and lacks the
Documentation on the property/district is prese <u>Files</u>	nted in:Review and Compliance
Prepared by: Washington County Engineering Department	
Kimberly Prothro Williams Reviewer, Office of Preservation Services	<u>ch 31, 1997</u> Date
NR program concurrence:  yes no not applic	Pable (197)

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# MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT

I.	Geographic Region:	
	Eastern Shore	(all Eastern Shore counties, and Cecil)
	Western Shore	(Anne Arundel, Calvert, Charles,
	Piedmont	Prince George's and St. Mary's) (Baltimore City, Baltimore, Carroll,
	Pledikiic	Frederick, Harford, Howard, Montgomery)
<u> </u>	Western Maryland	(Allegany, Garrett and Washington)
II.	Chronological/Developmental Periods:	
	Paleo-Indian	10000-7500 B.C.
	Early Archaic	7500-6000 B.C.
	Middle Archaic	6000-4000 B.C.
	Late Archaic	4000-2000 B.C. 2000-500 B.C.
	Early Woodland Middle Woodland Late Woodland/Archaic Contact and Settlement Rural Agrarian Intensification	500 B.C A.D. 900
	Late Woodland/Archaic	A.D. 900-1600
	Contact and Settlement	A.D. 1570-1750
	Rural Agrarian Intensification	A.D. 1680-1815
	Agricultural-Industrial Transi	tion A.D. 1815-1870
X	Agricultural-Industrial Transi Industrial/Urban Dominance	A.D. 1870-1930
	Modern Period	A.D. 1930-Present
	Unknown Period ( prehisto	ric historic)
III.	Prehistoric Period Themes:	IV. Historic Period Themes:
	Subsistence	Agriculture
	Settlement	Architecture, Landscape Architecture,
		and Community Planning
	Political	Economic (Commercial and Industrial)
	Demographic	Government/Law
	Religion Technology	Military Religion
	Environmental Adaptation	Social/Educational/Cultural
	mviiommentui naaptation	X Transportation
V. R	esource Type:	
	Category: <u>Structure</u>	
	Historic Environment: Rural	
	Historic Function(s) and Use(s): Bridge	
	Known Design Source:	



OE.1A# PS.14 E WARRING DATE



18.14# CS.1A



#A1.32 A1.31



#A1.33 A1.32



46.14 # 86.1A